This Page Is Inserted by IFW Operations and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application:

Application No.: 10/619,114

Filed: 07/14/2003

Title: Narrow Width Effect Improvement with Photoresist Plug Process and STI Corner Ion Implantation

Commissioner for patents Washington, D.C. 20231

POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST (REVOCATION OF PRIOR POWERS)

REVOCATION OF PRIOR POWERS OF ATTORNEY

the power of attorney previously given is hereby revoked, and

NEW POWER OF ATTORNEY

the following attorneys/agents are hereby appointed to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: I hereby appoint all attorneys of Thomas, Kayden, Horstemeyer & Risley, LLP, who are listed under the USPTO Customer Number shown below as the attorneys to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith, recognizing that the specific attorneys listed under that Customer Number may be changed from time to time at the sole discretion of Thomas, Kayden, Horstemeyer & Risley, LLP, and request that all correspondence about the application be addressed to the address filed under the same USPTO Customer Number.

24504

Patent Trademark Office

Please direct all future correspondence and telephone calls to:

Daniel R. McClure, Reg. No. 38,962 THOMAS, KAYDEN, HORSTEMEYER & RISLEY, L.L.P.

> 100 Galleria Parkway, Suite 1750 Atlanta, Georgia 30339 770-933-9500

ASSIGNEE OF ENTIRE INTEREST
TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD

8, Li-Hsin Rd. 6 Hsinchu Science Park Hsinchu, Taiwan 300-77, R.O.C.

ASSIGNEE CERTIFICATION

The certification under 37 C.F.R. §3.73(b) establishing the right of assignce to take action is attached hereto along with documentation evidencing same. Further, in my official position with Taiwan Semiconductor Manufacturing Company, Ltd., I am authorized to sign documents and otherwise act on its behalf in connection with the management and handling of patent applications and other intellectual property matters.

Date

Jane 17, 2004

Chien-Wei (Chris) Chou

Director - Intellectual Property Division



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Sheu et al. Application Serial No.: 10/619,114

Filed: July 14, 2003

For: Narrow Width Effect Improvement with Photoresist Plug Process and STI Corner Ion

Implantation Patent No.: Issue Date:

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

CERTIFICATE UNDER 37 C.F.R. §3.73(b) ESTABLISHING RIGHT OF ASSIGNEE TO TAKE ACTION

1. The assignee of the entire right, title and interest hereby seeks to take action in the PTO in this matter.

IDENTIFICATION OF ASSIGNEE

2. The assignee of this matter is:

TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD.

8, Li-Hsin Rd. 6 Hsinchu Science Park Hsinchu, Taiwan 300-77, R.O.C.

PERSON AUTHORIZED TO SIGN

3. Daniel R. McClure Attorney for Assignee

4.	4. A chain of title from the inventor(s) to the current assignee is shown below			urrent assignee is shown below:	
	a.	From: To: Recorded in PTO: Re	el:	Frame:	
	b.	From: To: Recorded in PTO: Re	el:	Frame:	
				dencing assignment that Frame has been assigned as of yet.	
DECLARATIONS					
5.	5. I, the undersigned, have reviewed all the documents in the chain of title of the				
	\square	application patent			
matter identified abo		ove and, to the best of	f my knowled	ge and belief, title is in the assignee	
these statement are punishable	atemen nts are in e by finand that	ts made on information made with the knowled me or imprisonment, of a such willful false state	n and belief are ge that willful r both, under	nerein of my own knowledge are true e believed to be true; and further, that false statements, and the like so made Section 1001, Title 18 of the United opardize the validity of the application	
7. behalf of the				empowered to sign this statement or	
			Da	It In the	
T.I.M. 550	022.05	200	Daniel R. Mo	cClure, Reg. No. 38,962	
Tel. No. 770-933-9500 Customer No.: 24504		& RISLEY.	KAYDEN, HORSTEMEYER , L.L.P. Parkway, Suite 1750 rgia 30339-5948		
Docket No. 2	52016-	1300	z kianta, Geor		

FORM PTO~1595 Office

RECORDATION FORM COVER SPEET

PATENTS ONLY

U.S. DEPT. OF COMMERCE Patent and Trademark

TS02-1050	
To the Honorable Companies of Patents and Trademarks: Please	se record the attached original documents or copy thereof.
1. Name of conveying party(ies):	2. Name and address of receiving party(ies):
YI-MENG SHEU, DA-WEN LIN, CHENG-KU CHEN, PO-YING YEH, SHI-SHUNG PENG, CHUNG-CHENG WU	Name: <u>Taiwan Semiconductor Manufacturing</u> <u>Company</u>
Additional name(s) or conveying party(ies) attached? Yes X N	Internal Address:
	Street Address:
3. Nature of conveyance X Assignment Merger Security Agreement Change of Name	No. 8, Li-Hsin Rd. 6 Science-Based Industrial Park Hsin-Chu, Taiwan 300-77 Taiwan, R.O.C.
other	
Execution Date: $5/3/03$	Additional name & address attached? Yes X No
4. Application number(s) or patent number(s): 10/619,114	
11	
If this document is being filed together with a new applicat A. Patent Application No(s)	tion, the execution date of the application is: <u>B. Patent No.(s)</u>
Additional numbers attach	ned? Yes X No
 Name and address of party to whom correspondence concerning document should be mailed: Name: <u>GEORGE O. SAILE</u> 	6. Total no. of applications and patents involved:: 1
Internal Address:	7. Total fee (37 CFR 3.41): \$ 40.00
	Enclosed
Street Address: 28 DAVIS AVENUE	X Authorized to be charged to deposit acct.
City: POUGHKEEPSIE State: NY ZIP: 12603	8 .Deposit account number: 19-0033 (Attach duplicate copy of this page if paying by deposit account)
DO NOT USE T	'HIS SPACE
9. Statement and signature. To the best of my knowledge and belief the foregoing information of the original document.	ation is true and correct and any attached copy is a true copy
STEPHEN B. ACKERMAN	12/22/03
Name of Person Signing	Signature Date

TS02-1050	For x U.S. and/or x Foreign Rights			
	For X Application or U.S. Patent			
·	By X Inventor(s) or Present Owner			
ASSIGNMENT OF INVENTION				
In consideration of the payment by ASSIGI receipt of which is hereby acknowledged, a	NEE to ASSIGNOR of the sum of One Dollar (\$1.00), the and for other good and valuable consideration,			
ASSIGNOR:	·			
YI-MING SHEU Type of print name of ASSIGNOR No. 24, Lame 136, Jungle: Address Alchest, Taiwan 301, R.O. C. R.O. C. Registic of Phina Nationality Taiwan	DA-WEN LIN Type or print name of ASSIGNOR Rd., No.7. Shinguang Rd., Taipin City, Address Taidhung County Taiwan 411, R.O.C. R.O.C., Paper Blicy China, Jaiwan Nationality			
CHENG-KU CHEN Type of print name of ASSIGNOR 3 Fi No 2. Alley 50, Lane 367 Address Guang fa Pd. Sec. 1 Hsinchu T R. O. C. Pepulylic of China, Nationality ASSIGNEE:	PO-YING YEH Type or print name of ASSIGNOR Address TW Taman (Ity, Taiwan not, Roc R.O. C. Popper Hillor China, Taiwan Nationality			
Taiwan Semiconductor Manufacturing C No. 6, Li-Hsin Rd. 6 Science-Based Industrial Park Hsin-Chu, Taiwan 300-77 R.O.C. Taiwan, R.O.C.	co. Ltd.			
and the successors, assigns and legal repres				
x the entire right, title and interest	one of the following)			
	interest for the United States and its territorial possessions			
(check the following box/f foreign x) and in all foreign countries	gn rights are also to be assigned)			
in and to any and all improvements which are	disclosed in the invention entitled:			

Narrow Width Effect Improvement With Photoresist Plug Process And Sti Corner Ion Implantation

TS02-1050	For X U.S. and/or X Foreign Rights			
	For X Application or U.S. Patent			
	By X Inventor(s) or Present Owner			
ASSIGNMENT OF INVENTION				
In consideration of the payment by ASSIGNEE receipt of which is hereby acknowledged, and	E to ASSIGNOR of the sum of One Dollar (\$1.00), the for other good and valuable consideration,			
ASSIGNOR:				
SHI-SHUNG PENG Type or print name of ASSIGNOR NO. 32, Shinyi St., Heng shan Acoross Shiang, Idsinchu County, Taiman 312 R.O. C., Populte IT Chena, Nationality	CHUNG-CHENG WU Type or print name of ASSIGNOR No. 19. Lane 17), Shi - Pin Rond, Address Him - Chu. Taidan R. J. C. Ropultic of China, Callan Nationality			
ASSIGNEE:				
Taiwan Semiconductor Manufacturing Co. No. 6, Li-Hsin Rd. 6 Science-Based Industrial Park Hsin-Chu, Taiwan, 300-77 R.O.C. Taiwan, R.O.C. Nationality	Ltd.			
and the successors, assigns and legal representatives of the ASSIGNEE				
[]	e of the following)			
x the entire right, title and interest				
an undivided percent (%) interest for the United States and its territorial possessions (check the following box/f foreign rights are also to be assigned)				
x and in all foreign countries	Similar Code Se dealgroup			
in and to any and all improvements which are dis	sclosed in the invention entitled:			
Narrow Width Effect Improvement With Phote Implantation	oresist Plug Process And Sti Corner lon			

and which is found in

(a)	x U.S. patent application executed on even d	ate herewith
(b)	U.S. patent application executed on	
(c)	U.S. application serial no.	
(d)	U.S. patent no.	
	(also check (e) if fore	ign application(s) is also being assigned)
(e)	x and any legal equivalent thereof in a foreign	country, including the right to clam priority
and, conti there	nuation, division, renewal, or substitute, thereof, an	r said invention by the above application or any discretion or any discretion or any re-issue or re-examination
be m	ASSIGNOR hereby covenants that no assignment ade or entered into which would conflict with this a	, sale, agreement or encumbrance has been or will assignment.
or pro any a applic	nent facts and documents relating to said invention be known and accessible to ASSIGNOR and will to acceeding related thereto and will promptly execute a and all papers, instruments or affidavits required to	ill, upon its request, be provided promptly with all and said Letters Patent and legal equivalents as testify as to the same in any interference, litigation and deliver to ASSIGNEE or its legal representatives apply for, obtain, maintain, issue and enforce said said equivalents thereof which may be necessary
IN WI	TNESS WHEREOF, I / We have signed this Mow 1 > 207 > (Date of signing must be the same as the date of execution)	signing)
		Signature or assignors, Da-Ven Lin Po-ying Yok Cheng-ku Chen
IFASS	IGNOR is a legal entity complete the following information	ation
		Type or print the name of the above person authorized to sign on behalf of ASSIGNOR
۲		Title It is notarized or legalized then it will only be primu facic evidence (35 USC
	61). Use next page if note ization is desired.	in is now that or regulated them it will only be primit today evidence (35 USC
		Normation of Legalization Page Added.

and which is found in

(a) X U.S. patent application executed on ever	n date hermaith
(b) U.S. patent application executed on	
(c) U.S. application serial no.	
(d) U.S. patent no.	issued on
· · · · · · · · · · · · · · · · · · ·	oreign application(s) is also being assigned)
(e) x and any legal equivalent thereof in a forei	ign country, including the right to clam priority
and, in and to, all Letters Patent to be obtained continuation, division, renewal, or substitute, thereof, a thereof.	for said invention by the above application or any and as to letters patent any re-issue or re-examination
ASSIGNOR hereby covenants that no assignme be made or entered into which would conflict with this	ent, sale, agreement or encumbrance has been or will s assignment.
ASSIGNOR further covenants that ASSIGNEE pertinent facts and documents relating to said inventional may be known and accessible to ASSIGNOR and will or proceeding related thereto and will promptly execute any and all papers, instruments or affidavits required the application, said invention, and said Letters Patent are or desirable to carry out the purposes thereof.	Ill testify as to the same in any interference, litigation and deliver to ASSIGNEE or its legal representatives to apply for, obtain, maintain, issue and enforce said
IN WITNESS WHEREOF, I / We have signed this Mong - 3	Signature of ASSIGNORDS In Po-ving Yeh. Shi-Shung Peng Chung-Chang Wu
Note: No winessing, noturization or legalization is necessary, if the assigns 261). Use next page if notarization is desired.	Type or print the name of the above person authorized to sign on behalf of ASSIGNOR Title ment is notarized or legalized then it will only be prima facie evidence (35 USC
	Nonrization of Legalization Page Added.